

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A power plant comprising:

a nacelle cowl having an inlet end and an exhaust end;

a primary gas turbine engine mounted within said nacelle cowl;

said primary engine having a core compartment;

secondary power means for providing pneumatic air to at least one load; and

said secondary power means being positioned within the core compartment;

a by-pass passage positioned between said nacelle cowl and said core compartment; and

said primary engine drawing air into said inlet end and a first portion of said air being diverted into said by-pass passage and a second portion of said air entering said primary engine.

Claim 2. (currently amended) A power plant according to claim 1, further comprising:

an inner core cowl being concentrically mounted within said nacelle cowl about the primary gas turbine engine; and

said by-pass passage comprising an annular by-pass passage extending between said nacelle cowl and said inner core cowl.

Claim 3. (currently amended) A power plant according to claim 2, further comprising:

a nacelle cowl having an inlet end and an exhaust nozzle end;

a primary gas turbine engine mounted within said nacelle cowl;

said primary gas turbine engine having a core compartment;

secondary power means for providing pneumatic air to at least one load;

said secondary power means being positioned within the core compartment;

an inner core cowl being concentrically mounted within said nacelle cowl about the primary gas turbine engine;

an annular by-pass passage extending between said nacelle cowl and said inner core cowl; and

said secondary power means having inlet means for drawing a fluid from said by-pass passage into said secondary power means.

Claim 4. (original) A power plant according to claim 3, wherein said inlet is an axial inlet.

Claim 5. (original) A power plant according to claim 3, wherein said inlet means comprises a radial inlet plenum.

Claim 6. (original) A power plant according to claim 5, wherein said radial inlet plenum comprises a ring member defining a number of air passages extending radially through the core compartment.

Claim 7. (original) A power plant according to claim 3, further comprising said secondary power means having outlet means for directing expanded gases into said by-pass passage.

Claim 8. (original) A power plant according to claim 3, further comprising a closure member movable between a first position where fluid from said by-pass passage is drawn into said inlet means and a second position where fluid from said by-pass passage is prevented from being drawn into said inlet means.

Claim 9. (original) A power plant according to claim 1, wherein said primary gas turbine engine has a compressor section, a combustion section, and a turbine section.

Claim 10. (currently amended) A power plant according to claim 1, wherein said secondary power means comprises an auxiliary power unit for providing pneumatic air to said at least one load and ~~electrical loads for an aircraft.~~

Claim 11. (previously presented) A power plant according to claim 10, wherein said auxiliary power unit comprises means for starting said primary gas turbine engine.

Claim 12. (original) A power plant according to claim 1, wherein said secondary power means comprises a gas turbine engine.

Claim 13. (original) A power plant according to claim 1, wherein said secondary power means comprises an auxiliary power unit having an environmental control system.

Claim 14. (original) A power plant according to claim 1, wherein said secondary power means comprises a power unit which integrates an auxiliary power unit, an energy power unit, an environmental control system, and an engine start system.

Claim 15. (original) A power plant according to claim 1, wherein said secondary power means comprises means for heating said primary gas turbine engine.

Claim 16. (original) A power plant according to claim 1, further comprising said secondary power means having an inlet for receiving air from said core compartment.

Claim 17. (original) A power plant according to claim 1, further comprising a hollow member for allowing ambient air to be drawn into said secondary power means.

Claim 18. (original) A power plant according to claim 1, further comprising a hollow member extending from an outlet end of said secondary power means for directing expanded gas to an ambient environment.

Claim 19. (original) A power plant comprising:

a nacelle cowl having an inlet end and an outlet end;

a primary gas turbine engine mounted within said nacelle cowl;

said primary gas turbine engine having an aft center-body;

secondary power means for providing pneumatic air to at least one load; and

said secondary power means being positioned within said aft center-body.

Claim 20. (original) A power plant according to claim 19, further comprising:

a by-pass passage; and

said secondary power means having inlet means for drawing a fluid flowing through said by-pass passage into said secondary power means.

Claim 21. (original) A power plant according to claim 20, further comprising said secondary power means having an outlet for discharging a fluid into an exhaust nozzle.

Claim 22. (currently amended) A power plant according to claim 1, further comprising:

an inner core cowl being concentrically mounted within and located radially inward of said nacelle cowl about the primary gas turbine engine; and

said by-pass passage comprising an annular by-pass passage extending between said nacelle cowl and said inner core cowl.

Claim 23. (previously presented) A power plant for an aircraft, the power plant comprising:

a nacelle having an inlet end, an exhaust end and a by-pass passage defined inside the nacelle;

a gas turbine engine mounted in the nacelle for providing motive thrust to the aircraft; and

a secondary power generation unit mounted inside the nacelle, said secondary power generation unit being adapted to provide at least one of pneumatic air and electrical power to an aircraft accessory system and having an inlet for drawing a fluid into said secondary power generation unit from the by-pass passage,

wherein the gas turbine engine and said secondary power generation unit are mounted non-concentrically adjacent one another in the nacelle.

Claim 24. (previously presented) A power plant according to claim 23, wherein said inlet is an axial inlet.

Claim 25. (previously presented) A power plant according to claim 23, wherein said inlet comprises a radial inlet plenum.

Claim 26. (previously presented) A power plant according to claim 23, further comprising said secondary power generation unit has an outlet for directing expanded gases into the by-pass passage.

Claim 27. (previously presented) A power plant according to claim 23, further comprising a closure member movable between a first position where fluid from said by-pass passage is drawn into said inlet and a second position where fluid from said by-pass passage is prevented from being drawn into said inlet.

Claim 28. (previously presented) A power plant according to claim 23, wherein said secondary power generation unit comprises a gas turbine engine.

Claim 29. (previously presented) A power plant according to claim 23, wherein said secondary power generation unit comprises an auxiliary power unit.

Claim 30. (previously presented) A power plant for an aircraft, the power plant comprising:

a nacelle having an inlet end, an exhaust end and an annular by-pass passage defined inside the nacelle;

a thrust producing gas turbine engine core located radially inside the annular by-pass passage; and

a secondary power unit located radially inside the annular by-pass passage and besides the engine core, said secondary power unit providing non-propulsive power to the aircraft.

Claim 31. (previously presented) A power plant according to claim 30, wherein said secondary power unit is located between said by-pass passage and said engine core.

Claim 32. (previously presented) A power plant according to claim 30, wherein said secondary power unit has an inlet for drawing a fluid from said by-pass passage into said secondary power unit.

Claim 33. (previously presented) A power plant according to claim 30, wherein said secondary power unit has an outlet for directing expanded gases into the by-pass passage.

Claim 34. (previously presented) A power plant according to claim 30, wherein said secondary power unit comprises a gas turbine engine.

Claim 35. (previously presented) A power plant according to claim 30, wherein said secondary power unit comprises an auxiliary power unit.